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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/803,562	03/18/2004	Donghao Robert Lu	G25-075CIP	5976
7590 06/21/2006			EXAMINER	
Henry D. Coleman			MOHAMED, ABDEL A	
714 Colorado Avenue Bridgeport, CT 06605			ART UNIT	PAPER NUMBER
			1654	

DATE MAILED: 06/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

1	Application No.	Applicant(s)
	10/803,562	LU ET AL.
Office Action Summary	Examiner	Art Unit
	Abdel A. Mohamed	1654
The MAILING DATE of this communication a	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statt Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tiled will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 18 2a) This action is FINAL. 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 34-57 is/are pending in the applicat 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 34-57 are subject to restriction and/	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) and accomplicate any not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the left.	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receiv eau (PCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	y (PTO-413)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	Paper No(s)/Mail D	

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ACKNOWLEDGMENT TO PRELIMINARY AMEND MENT AND THE STATUS OF THE CLAIMS

1. The preliminary amendment filed 03/18/04 is acknowledged, entered and considered. In view of Applicant's request claims 1-33 have been canceled. It is noted that Applicant has stated in the Remarks that claims 34-56 are present in the application; however, the claims as originally filed contain claims 1-57 of which claims 1-33 have been canceled by the preliminary amendment filed 03/18/04. Thus, claims 34-57 are now pending in the application.

ELECTION/RESTRICTION

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 34-49, drawn to pharmaceutical formulation comprising a
 microemulsion with a lipid core and an amphipathic lipid layer, and
 wherein said amphipathic lipid is a polynucleotide, classified in classes
 424, 514 and 530, subclasses 130.1, 450, 7 and 359, respectively.
 - II. Claims50-56, drawn to a method of enhancing the delivery of a polynucleotide to a predetermined site or tissue within a subject by administering the pharmaceutical formulation of claim 34, classified in class 514, subclass 7.
 - III. Claim 57, drawn to a DNA vaccine, classified in class 424, subclass 184.1

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The inventions are distinct, each from the other because of the following reasons:

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- 3. Inventions I and II-III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the products as claimed can be used in a materially different processes such as delivering the product as a drug to mimic naturally occurring or native lipoprotein or as a DNA vaccine as claimed in Group III.
- 4. Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions use different methods of treatment. Although, they use the same polynucleotide, however, the polynucleotide is used for different methods have different end results and effects, and as such, may recite different method steps and use different materials to achieve the intended results, respectively. Thus, a method of enhancing the delivery of a polynucleotide to a predetermined site or tissue within a subject by administering the pharmaceutical formulation thereof is not the same as administering a DNA vaccine and *vice versa* because a vaccine has different end results and effects. As such, the methods as grouped are independent and distinct inventions, which differ, in material make up and composition requiring different reaction

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conditions. Hence, one does not require the other for ultimate use and as such is capable of separate manufacture, use and sale, and is novel and patentable over each other. For these reasons, Group II is not related to Group III.

5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and because the searches for individual subject sets are not coextensive, restriction for examination purposes as indicated is proper.

ELECTION OF SPECIES

6. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I, phospholipids listed in claim38.

Species II, steroids listed in claim 40.

Species III, lipidized protein listed in claims 44-46.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 34 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 7. Applicant is advised that the reply to this requirement to be complete must include: (1) an election of the invention to be examined, (2) an election of the species of protein and indicate claims reading thereon, even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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9. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection is governed by 37 CFR 1.116; amendments submitted after allowance is governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between products claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain

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dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

CONCLUSION AND FUTURE CORRESPONDANCE

10 Claims 34-57 are subjected to restriction and/or species election requirement.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdel A. Mohamed whose telephone number is (571) 272 0955. The examiner can normally be reached on First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tsang Cecilia can be reached on (571) 272 0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jon Weber supervisory Patent Examiner

My Mohamed/AAM June 14, 2006